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## ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your Print Server, including:

- Chapter 1, **Introduction**, provides the general information on the product.
- Chapter 2, **Hardware Installation**, describes the hardware installation procedure for the product.
- Chapter 3, **Using the Utilities**, helps you to install and use the software.
- Chapter 4, Web Configuration, completes the configuration using the web browser.
- Chapter 5, **Printing in Windows 95/98/ME**, completes the printing TCP/IP setting in Windows 95/98/ME environment.
- Chapter 6, **Printing in Windows 2000/XP**, completes the printing TCP/IP Setting in Windows 2000/XP environment.
- Chapter 7, **Printing in MAC OS**, lets you complete printing task through your print server in MAC OS environment.
- Chapter 8, **Product Specification**.

Please note that the illustrations or setting values in this manual are **FOR YOUR REFERENCE ONLY**. The actual settings and values depend on your system and network. If you are not sure about the respective information, please ask your network administrator or MIS staff for help.

# 1

## INTRODUCTION

Congratulations on purchasing your TE100-P21 Print Server, the easiest and fastest way to deploy printers on your network.

This print server can connect your network through an Access Point under the infrastructure mode, or can be used in ad-hoc mode for direct communication between PC/Notebook and print server anywhere you wish to locate wireless printer services. It manages the flow of print files from your workstation or file server to its connected printers, delivering print jobs to high-performance printers much faster than a file server or a PC acting as a print server can.

The Print Server features a Web-based Configuration Utility, which allows you to set up the print server through the web browser easily and quickly. It also includes a powerful software utility **PS-Utility** and **PS Monitor Setup**, the user-friendly program that allows you to complete further settings for the print server.

## **Package Contents**

Unpack the package and check all the items carefully, and be certain that you have:

- One TE100-P21 Print Server.
- One Quick Installation Guide.
- One Installation CD-ROM containing the PS-Utility & PS Monitor Setup program and User's Guide.
- One AC Power Adapter suitable for your country's electric power service.

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future.

## **System Requirements**

• Operating System:

Microsoft Windows 95/98/ME/NT/2000/XP/2003.

Apple Mac OS (with Apple Talk support).

• For Web Configuration:

Java-enabled web browser, such as Microsoft® Internet Explorer 5.0 and Netscape Navigator 6.0.

## **General Features**

- Equipped with 1 parallel port and 2 USB ports allows user to share three printers on LAN simultaneously.
- Compliant with USB 2.0 High-speed printing.
- Equipped one 10/100 auto-MDIX Fast Ethernet LAN port.
- Multi protocol support is ideal for shared printing in mixed-LAN environments.
- Windows-based administrative program makes it possible to set up in a few steps.
- Latest MIB-II (RFC 1213) for SNMP standard management.
- Offer LPR program for Windows 95/98/Me TCP/IP printing.
- IP assignment support for DHCP, BOOTP and RARP.
- Support Web configuration.
- Provide Flash memory for easy firmware upgrade.
- Printing Access control and display.
- E-mail notification for printer error messages.
- Support E-Mail printing and FTP printing.
- Ability to save print server configuration into hard drive for easy access and backup without the hassle to reconfigure if setting is altered.
- Support IPP printing for Windows 2000/XP.
- Support Microsoft Graphical Device Interface (GDI) Printer
- Support second http port for remote web configuration and IPP printing.
- Support UPnP (Universal Plug and Play) for Windows XP.
- Support Mac OS 10.2 "Rendezvous" zero-configuration function.

## **Product View**

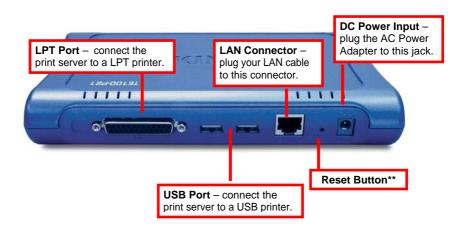
This section describes the externally visible features of the print server.

# Power LAN USB1 USB2 LP7





#### **Rear View**



\* There are five green LED indicators on the front panel:

LEDs	Description	
Power	Steady light means power on.	
USB1	When it is blinking, the connected printer is printing.	
USB2	When it is blinking, the connected printer is printing.	
LPT	When blinking, the connected printer is printing.	
LAN	Steady light means the print server has been connected to the network.	
	When blinking (briefly dark), the print server is receiving/ transmitting data from/to the network.	

#### \*\*Reset Unit

• Press and release reset button to reset the print server

#### **Restore to Factory Default**

• Press and hold this button for three seconds (the USB LED on the front panel will light up) and then release it, the print server will restore to factory default settings.

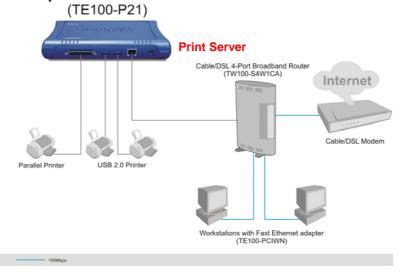
# 2

## HARDWARE INSTALLATION

## **Networking Application**

The following diagram explains the application of your print server.

#### 10/100Mbps Multi-Port Print Server



## **Installing the Print Server**

Follow these steps for a trouble-free start of print server operations with your Print Server.

- **1.** Confirm that your network is operating normally.
- **2.** Connect the print server to the network (through the RJ-45 connector of the print server).
- **5.** While the printer is powered off, connect the print server to the printer's USB or Parallel port.
- **6.** Turn on the printer's power.
- 7. Connect the DC end of the AC Power adapter to the DC power input socket of the print server and the AC end to the wall outlet. This will supply power to the print server immediately.

**NOTE:** This print server is built-in with a default IP Address (e.g. 192.168.0.1). To prevent from any conflict in your network, it is recommended to use the PS-Utility program to change the IP setting when there is some other device's IP Address is the same as the print server's default IP Address.

## 3

## USING THE UTILITIES

This chapter describes the software utilities for the print server, including how to set up your print server with these utility. The **PS**-Utility and **PS Wizard** are designed with a user-friendly interface that allows you to set up and administer the print server easily.

## **Auto-Run Installation**

Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program, and the menu screen will appear as below.



- **Manual** click to preview the *User's Guide* in PDF format for detailed information of the Print Server.
- **Install Utility** click to install PS-Utility. Please refer to the next section for detailed information on installing the utility.
- **PS Wizard** click to launch the Printer Wizard program, which is helpful to set up the printer configuration easily and quickly.
- **PS Monitor Setup** Click to launch the PSM Program to support GDI printer.
- **Browse CD** if you want to browse the contents of the Installation CD-ROM, click this button and the contents of the CD will be available for preview.
- **Exit** click to close the Auto-Run program.

## **PS-Utility**

To avoid the conflict in your network, you can use PS-Utility to change the related settings of your print server (such as the IP address) after finishing the installation.

### Installing PS-Utility

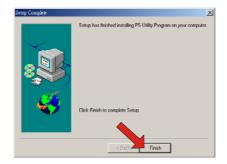
 Click Install Utility from the Auto-Run menu screen. Once executed, the Setup program will extract files to launch the InstallShield Wizard; then, click Next > in the welcome screen of InstallShield Wizard.



**2.** Choose the destination location. If no specific requirement, leave the default setting and click *Next* >.



- **3.** The InstallShield Wizard starts to install the software, and the Progress bar indicates the installation is proceeding.
- 4. When completed, click *Finish*.

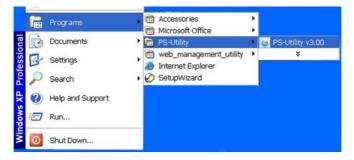


After installing the utility, the application program for the print server is automatically installed to your computer, and creates a folder in **Start\Programs\PS-Utility**.

## **Using PS-Utility**

This section describes the operation of PS-Utility. To launch PS-Utility:

1. Click Start -> Programs -> PS-Utility, and then click the PS-Utility v3.00 item.



**2.** The main screen will appear as below, and it starts to search the connected print server within the network.

Device Name	Setup Wiza	ard	Update Firmware
Your print server	Change IP Ad	dress	Factory Reset
	Show Web S	etup	Print Test
	-Information		
	MAC Address	00 03 1	l b 56 77 9e
	IP Address	192.16	B.O.1
	Model	TE100-	-P21
	Status	Runnin	g
	Firmware	3.20	
	UpTime	0 days,	00:00:00
Discover Device	About	U days,	Close

#### **Component Features:**

**Device List:** Display the connected print server within the network.

#### 2 Control Buttons

- Setup Wizard: Click the button to set up the print server's system setting, IP Address, Workgroup of Microsoft Network and apple talk setting.
- **Update Firmware:** Click this button to update the firmware of the selected print server.

- Change IP Address: Click this button to bring up the following dialog box, allowing you to change the IP Address. In this dialog box, you can select either Manually Assign or DHCP Assign Automatically. When completed, click OK.

Change IP Ad	dress	×
<ul> <li>Manually Assign</li> </ul>	 ו	
IP Address	192 . 168 . 1	121
Subnet Mask	255 255 255	. 0
Default Gateway	192 . 168 . 1	254
C DHCP Assign A	utomatically	
OK	Cancel	

- **Factory Reset:** Click this button to reload the factory settings of the print server.
- Show Web Setup: Click this button to open your web browser and launch the Configuration Utility. Alternately, you can double-click the print server in the Device List to launch the Configuration Utility.
- **Discover Device:** Click this button to search the connected print server again.
- **About:** Click this button to bring up a window containing the basic information of PS-Utility.
- Close: Click this button to exit PS-Utility.
- **3** Information Field: Display the basic information of the selected print server in the Device List.
- **4 Status Bar:** Display the system status.

## **PS** Wizard

PS Wizard is a convenient utility that allows you to set up the print server's port connection.

To launch PS Wizard:

 Insert the Installation CD-ROM into your computer's CD-ROM drive, and click **PS Wizard** from the Auto-Run menu screen. The welcome screen appears as below. Click **Next >**.

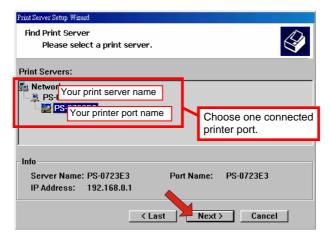


**NOTE:** For some specific printers, you may need to connect the printer to the computer and install the driver. In this case, connect it to the computer and install the driver first, and then connect it to the print server.

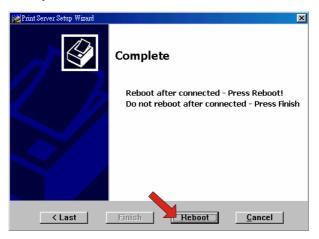
2. In the following window, select one printer in the Printer List to set up port connection, and then click *Next* >.

Print Server Setu	p Wizard
Printer Lis Please	st e select a printer
EPSON Stylus Photo 1290	Acrobat Acrobat PDFWriter Distiller
	Choose one connected printer within the network.
	✓ Last Next > Cancel

3. Select one printer port in the Print Server List, and click Next >.



4. The configuration is completed, click *Reboot* and then **Yes** to restart the system.



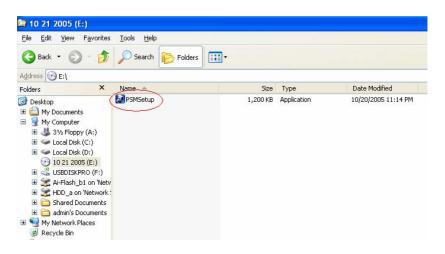
After rebooting, PS Wizard will help you to complete the port connection automatically. You can start your printing task without any complex configuration.

**TIP:** If you use Windows 2000/XP, the system will not restart to complete the installation.

## **PSM Setup Utility**

PS Monitor will allow the print server to support HP GDI Printers.

1. Click the "PS Monitor Setup" program from the CD-ROM. This program will lead you to finish the installation process of the PS Monitor step by step.



2. Choose the Language of your Windows system and click the "OK" button to the next step.



3. Click the "Next" button and start to install the PS Monitor.



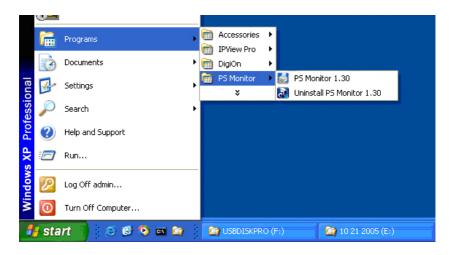
4. Specified the directory for of the PS Monitor to be installed inside and then click the "Next" button.

InstallShield Wizard		
Choose Destination Location Select folder where Setup will install fil	les.	
Setup will install PS Monitor in the follo	owing folder.	
To install to this folder, click Next. To another folder.	install to a different folder, click Br	owse and select
Destination Folder		
C:\Program Files\PS Monitor		Browse
nstallShield		
	< <u>B</u> ack <u>N</u> ei	xt > Cancel

5. Click the "Finish" button to complete the installation.



6. The installation is completed. Click the "Start"->"Program"->"PS Monitor"->"PS Monitor 1.30" to launch the PS Monitor.

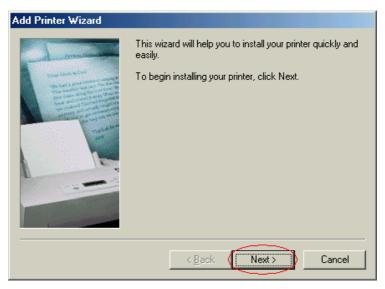


7. To verify if the PS Monitor is executed successfully, please check that the icon of PS Monitor is shown in the right side of bottom bar under your Windows system.



#### Installing of HP LaserJet1000 in Win 98

1. Open the "Printers" window of your Windows 98 system and click the "Add Printer" function. The following window will be popped up. Click the "Next" button to the next step.



2. Select the "Network Printer". Click "Next" button to the next step.

Add Printer Wizard	
	How is this printer attached to your computer? If it is directly attached to your computer, click Local Printer. If it is attached to another computer, click Network Printer <ul> <li>Local printer</li> <li>Network printer</li> </ul>
	< <u>B</u> ack Next> Cancel

3. Specify the port name of the printer server. The syntax is
"\\Printer Server name\Printer port name of the printer server" as the following show. Click the "Next" button to the next step.

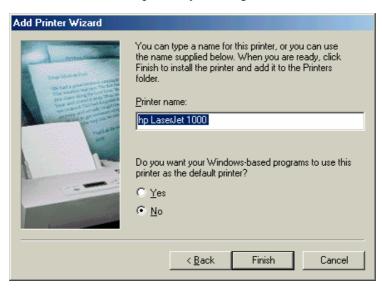
Add Printer Wizard	
	Type the network path or the queue name of your printer. If you don't know its name, click Browse to view available network printers. Network path or queue name:
	Browse Do you print from MS-DOS-based programs? ○ Yes ⊙ <u>N</u> o
	< <u>B</u> ack Next > Cancel

4. Choose the driver form the list or insert the HP LaserJet 1000 CD-ROM. Click the "Next" button to the next step.

Add Prin	ter Wizard		
٩		lick H	and model of your printer. If your printer came with an lave Disk. If your printer is not listed, consult your printer impatible printer.
<u>M</u> anufac	turers:		Printers:
Hermes Hewlett IBM Kodak Kyocera LaserM	-Packard		hp LaserJet 1010 hp LaserJet 1012 hp LaserJet 1015 hp LaserJet 1160 HP Color LaserJet 2600n hp LaserJet 1000
			<u>H</u> ave Disk
			< <u>B</u> ack Next > Cancel

Add Printer Wizard
Name Your Printer You must assign a name for this printer.
Supply a name for this printer. Some programs do not support server and printer name combinations of more than 31 characters. Printer name: hp LaserJet 1000
, Do you want your Windows-based programs to use this printer as the default printer? ⊙ Yes ⊙ N <u>o</u>
< <u>B</u> ack <u>N</u> ext > Cancel

5. If necessary, you could modify the name for the printer added. The installation is completed by clicking the "Finish" button.



#### Installing of HP LaserJet1000 in Win 2000

1. Open the "Printers" window of your Windows 2000 system and click the "Add Printer" function. The following window will be popped up. Click the "Next" button to the next step.



2. Select the "Local printer" and uncheck the "Automatically detect and install my Plug and Play printer". Click "Next" button to the next step.

Add Printer Wizard
Local or Network Printer Is the printer attached to your computer?
If the printer is directly attached to your computer, click Local printer. If it is attached to another computer, or directly to the network, click Network printer. Comparison of the printer of the pr
< <u>B</u> ack <u>N</u> ext > Cancel

6. Select the "Create a new port" and specify the type of port as "Local Port". Click the "Next" button to the next step.

Add Printer Wizard
Select the Printer Port Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
C Use the following port:
Port Description Printer
LPT1: Printer Port LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port COM2: Serial Port
Note: Most computers use the LPT1: port to communicate with a local printer.
© Create a new port
Type: Local Port
Fax Lexmark 7100 Series Port
Standard TCP/IP Port

3. The following window will be popped up for you to specify the port name of the printer server. The syntax is "\\*Printer Server name*\*Printer port name of the printer server*" as the following show. Click the "OK" button to the next step.

Port Name	<u>?</u> ×
<u>E</u> nter a port name:	ОК
\\PS-593852\PS-593852-U1	Cancel

4. Please specify the location of the driver of your HP LaserJet 1000 according to your condition. Click the "Next" button to the next step.

Add Printer Wizard
Add Printer Wizard The manufacturer and model determine which printer to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Manufacturers:       Printers:         Epson       HP Paintlet XL300 v2011.112         Fujitsu       HP Paintlet XL300 v2011.112         GCC       HP Quietlet Plus         Gestetner       HP Quietlet Plus         HP       HP Lasenlet 1000         IBM       Windows Update
< <u>B</u> ack <u>N</u> ext > Cancel

7. Name your printer if necessary. Click the "Next" button to the next step.

Add Printer Wizard
Name Your Printer You must assign a name for this printer.
Supply a name for this printer. Some programs do not support server and printer name combinations of more than 31 characters. Printer name: hp LaserJet 1000
Do you want your Windows-based programs to use this printer as the default printer?
< <u>B</u> ack <u>N</u> ext > Cancel

8. Select "Do not share this printer". Click the "Next" button to the next step.

Add Printer Wizard
Printer Sharing You can share this printer with other network users.
Indicate whether you want this printer to be available to other users. If you share this printer, you must provide a share name.
Do not share this printer
C Share as:
< <u>B</u> ack <u>N</u> ext > Cancel

9. Select "No" for printer test. Click the "Next" button to the next step.

Add Printer Wizard
Print Test Page To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
⊙ <u>Y</u> es
• Ng
< <u>B</u> ack <u>N</u> ext > Cancel

10. The installation is completed by clicking the "Finish" button.



11. Select the HP Laser Jet 1000 just been added and open the "Property" of it.

Click the "Ports" menu and uncheck the "Enable bidirectional support" to make the printing successful.

爹 hp Laser Je	et 1000 (Copy 2) Prop	perties	? ×
General Sh	aring Ports Advance	ed   Color Management   Security   Configure	
Print to the f		I	
checked po Port	T. Description	Printer	
COM3: COM4: FILE: IP_17 IP_17	Serial Port Serial Port Print to File	HP LaserJet 8000 Series PS hp LaserJet 1000	
🗆 Fax L	Fax Lexmark 7100	<b>•</b>	
Add F	Por <u>t</u> <u>D</u> elet	te Port <u>C</u> onfigure Port	
	idirectional support		
		OK Cancel <u>Apply</u> H	elp

#### Installing of HP LaserJet1000 in Win XP

1. Open the "Printers and Fax" window of your Windows System and click the "Add Printer" function. The following window will be popped up. Click the "Next" button to the next step.



2. Select the "Local printer attached to this computer" and uncheck the "Automatically detect and install my Plug and Play printer". Click "Next" button to the next step.

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
OA network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< <u>Back</u> Next> Cancel

 Select the "Create a new port and specify the type of port as "Local Port". Click the "Next" button to the next step.

Add Printer Wizard	
Select a Printer Port Computers communicate with	printers through ports.
Select the port you want you	ir printer to use. If the port is not listed, you can create a new port.
OUse the following port	LPT1: (Recommended Printer Port)
	ise the LPT1: port to communicate with a local printer. The nould look something like this:
© <u>C</u> reate a new port Type of port	Local Port
	< <u>Back</u> Next> Cancel

4. The following window will be popped up for you to specify the port name of the printer server. The syntax is "\\Printer Server name\Printer port name of the printer server" as the following show. Click the "OK" button to the next step.

Port Name	? 🗙
<u>E</u> nter a port name:	ОК
MPS-CE367A\PS-CE367A-U1	Cancel

5. Please specify the location of the driver of your HP LaserJet 1000 according to your condition. Click the "Next" button to the next step.

Add Printer Wizard	
Install Printer Software The manufacturer and model dete	rmine which printer software to use,
Click Have Disk. If your printer printer software.	model of your printer. If your printer came with an installation disk, r is not listed, consult your printer documentation for compatible
Manufacturer	Printers
Fujitsu GCC Generic Gestetner HP	HP QuietJet Plus HP QuietJet HP ThinkJet (2225 C-D) Thp LaserJet 1000
This driver is digitally signed. <u>Tell me why driver signing is impo</u>	Windows Update Have Disk
	Cancel

6. Name your printer if necessary. Click the "Next" button to the next step.

Name Your Printer You must assign a name to this printer.	
name combinations of more than 31 char possible.	me programs do not support printer and server acters, it is best to keep the name as short as
Printer name:	
hp LaserJet 1000	
Do you want to use this printer as the defe	ault printer?
⊙⊻es	ault printer?
	ault printer?
⊙⊻es	ault printer?
⊙⊻es	ault printer?
⊙⊻es	ault printer?

7. Select "No" for printer test. Click the "Next" button to the next step.

dd Printer Wizard	
Print Test Page To confirm that the printer is installed p	roperly, you can print a test page.
Do you want to print a test page?	
OYes	
No	
	<back next=""> Cancel</back>
	< <u>Back</u> <u>N</u> ext> Cancel

8. The installation is completed by clicking the "Finish" button.



9. Select the HP LaserJet 1000 just been added and open the "Property" of it. Click the "Ports" menu and uncheck the "Enable bidirectional support" to make the printing successful.

2	🖁 hp La	serJet 1	1000 (C	opy 1) Pro	operties					? 🗙
	General	Sharing	Ports	Advanced	Color Manage	ement	Configure			
		hp La	serJet1(	100						
	port.		2		s will print to the	e first fri	ee checkec			
	Port		escriptic) escriptic		Printer				^	
		T3: Pi	rinter Por	t						
			erial Port erial Port							
		M3: S	erial Port							
			erial Port rint to File							
		S-59 La	ocal Port		hp LaserJe	et 1000			*	
		Add Port.		<u>D</u> el	ete Port		<u>C</u> onfigure F	Port		
		ble bidire	ctional su	pport						
	E <u>n</u> al	ble printer	r pooling							
l					ОК	Ci	ancel	Ē	Apply	Help

# 4

# WEB CONFIGURATION

You can access and manage the Print Server through: 1) the enclosed software PS-Utility, and 2) a web browser. This chapter describes the second method – the Web Configuration Utility, and explains how to set up your print server with the web browser.

# Web Configuration Utility

First, launch your web browser (such as the Internet Explorer 6.0 used in this manual). Then, type *http://192.168.0.1* (the default IP address) in the Address bar and press [Enter] to enter the Management screen of the Configuration Utility.

**TIP:** The computer's IP address must correspond with the print server's IP address in the same segment for the two devices to communicate. Extensive knowledge of LAN will be helpful in configuring the print server.

# Management

SYSTEM	1	
Device St	tatus	
Server Na		
Model	TE100-P21	
Firmware	Version 3 25 (2005-1	
MAC Adde	ess 00 03 18 56	
IP Address	192.168.1.20	
Up Time	: 0 days, 00:2	5.36
Printer St	tatus	
	Printer Name	PS-56779E-U1
	Printer Speed	
	Printer Status	
		0
	Total Print Size	0 KBytes
	Palada a Palaci	Ide
	Printing Status Name	101
	MAC	
	P	
	Protocol	
	Spooling Size :	
		0 Bytes
USB2 ;	Printer Name	PS-56779E-U2
	Printer Speed	Off line
	Printer Status	
	Service and	0.000
		0
	Total Print Size	0 KBytes
	Printing Status	lde
	Name	
	MAC	
	P	
	Protocol	
		0 Bytes
		D Bytes
thu :	Printer Name	
	Printer Speed	
	Printer States	Offine
	Total Print John	0
	Total Print Size	
	Printing Status	lde
	Name	
	MAC :	
	P	
	Protocol	
	Spooling Size	
	Printing Size	0 Bytes
Ethernet	Status	
Link	. Yes	
Speed	100M bps	
Full Duple	x : Yes	
Tx Packet		
Tx Errors	0	
Rx Packet		
Rx Errors	0	
Retresh		

The Management Screen of the Configuration Utility

The Management screen displays the basic information of the print server, including the following four categories:

- System
- Network
- User

## Management → System

As shown above, the **System** displays the status of your print server, printer, and network. Clicking *Refresh* will update the information.

#### **Device Status**

The information about the print server, including the firmware version, MAC/IP address, and up time, can be found in this field.

De√ice Status	
Server Name	: PS-56779E
Model	: TE100-P21
Firmware Version	: 3.25 (2005-12-26)
MAC Address	: 00 03 1B 56 77 9E
IP Address	: 192.168.1.121 (Manual)
Up Time	: 0 days, 00:26:53

#### Printer Status

The items in this field display the information of the printer, such as the given name for the printer, speed, printer status, and status of your printing tasks, etc.

USB1 :	:	Printer Name	ः	PS-56779E-U1
		Printer Speed	3	Off line
		Printer Status	:	Off line
		Total Print Jobs	12	0
		Total Print Size	1	0 KBytes
		Printing Status		Idle
		Name	:	
		MAC	3	
		IP		
		Protocol	:	
		Spooling Size	1	0 Bytes
		Printing Size		0 Bytes
USB2	:	Printer Name	:	PS-56779E-U2
		Printer Speed	a:	Off line
		Printer Status	12	Off line

#### **Ethernet Status**

You can monitor the networking status in this field, including the network connection, speed, and the packets status.

Ethernet Statu	S		
Link	: )	es	
Speed	: 1	DOM bps	
Full Duplex	: )	es	
Tx Packets	: 1	272	
Tx Errors	: 0		
Rx Packets	: 1	0570	
Rx Errors	: 0		
Refresh			

## Management → Network

Click the **Network** item to display the information of the LAN. Clicking **Refresh** will update the information.

IDNET	TE10
NETWORK	
Auto IP	
DHCP/BOOTP	: Disable (IP: 0.0.0.0)
	: Enable (IP : 192.168.1.25)
MAC Rendezvous	: Enable (IP : 169.254.119.158)
TCP/IP Printing	
LPR Printing	Status : Running
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
Port (9100/9101/9102) Printing	Status : Running
	Total Print Jobs 💠 0
	Total Print Size : 0 KBytes
IPP Printing	Status : Running
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
FTP Printing	Status : Running
	Total Print Jobs 2.0
	Total Print Size : 0 KBytes
E-mail Printing	Status : Running
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
Microsoft Network Printin	ig
SMB (Over NetBEUI) Printing	Status : Running
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
SMB (Over NBT) Printing	Status : Running
	Total Print Jobs : 0
	Total Print Size : 0 KBytes
MAC AppleTalk Printing	
AppleTalk Printing	Status Running
. which and a monthly	Status : Running     Total Print Jobs : 0
	Total Print Size : 0 KBytes
Refresh	

#### <u>Auto IP</u>

This field contains the current settings of TCP/IP, including DHCP/BOOTP, UPnP, and MAC Rendezvous. The items in this field are configured in **Configuration** > **Network** > **TCP/IP**.

Auto IP		
DHCP/BOOTP	: Disable (IP : 0.0.0.0)	
UPnP	: Enable (IP : 192.168.1.25)	
MAC Rendezvous	: Enable (IP : 169.254.119.158)	

#### **TCP/IP Printing**

In this field, you can monitor the status of your printing tasks through TCP/IP.

LPR Printing	:	Status	: Running	
	-	Total Print Jobs		
		Total Print Size	: 0 KBytes	
Port (9100/9101/9102) Printing		Status	: Running	
		Total Print Jobs	: 0	
		Total Print Size	: 0 KBytes	
IPP Printing	:	Status	: Running	
		Total Print Jobs	: 0	
		Total Print Size	: 0 KBytes	
FTP Printing	:	Status	: Running	
		Total Print Jobs	: 0	
		Total Print Size	: 0 KBytes	
E-mail Printing	•	Status	: Running	
		Total Print Jobs	: 0	
		Total Print Size	: O KBytes	

#### Microsoft Network Printing

In this field, you can monitor the status of your printing tasks through Microsoft Network.

g		
:	Status	: Running
	Total Print Jobs	: 0
	Total Print Size	: 0 KBytes
:	Status	: Running
	Total Print Jobs	: 0
	Total Print Size	: 0 KBytes
	:	<ul> <li>Status</li> <li>Total Print Jobs</li> <li>Total Print Size</li> <li>Status</li> <li>Total Print Jobs</li> </ul>

#### MAC AppleTalk Printing

In this field, you can monitor the status of your printing tasks through MAC AppleTalk.

AppleTalk Printing	:	Status	: Running	
		Total Print Jobs	: 0	
		Total Print Size	: 0 KBytes	

### Management → User

Click the **User** item in the left column to display the user(s) information.

	DNET	10/1	00Mbps M	ulti-Port P	rint Server TE100-P21
Management System	USER				
Network	Users Printing Log	)			
User	MAC	IP	Name	Jobs	Size(KBytes)
Configuration					
Tools	Refresh				
Help					
			Copyri	ght © 2005 TRENDn	et. All Rights Reserved.

#### Users Printing Log

The items in this field display the user(s) information, which include the user(s) MAC address, IP address, name, and status of printing tasks.

# Configuration

## Configuration → System

	INET	10/100Mbps Multi-Port Print Server TE100-P2	
Management	SYSTEM		
Configuration	System Device		
System	Server Name	: PS-56779E	
User	Location	:	
Email	Admin Contact	·	
Tools	Password	New Password : Confirm Again :	
Help	Port Setting		
	USB1	: Port Name : PS-56779E-U1      Description :      PJL Printer : No ♥	
	USB2	: Port Name : PS-56779E-U2     Description :     PJL Printer : No ♥	
	LPT3	: Port Name       : PS-56779E-P3         Description       :         Speed       : High          PJL Printer       : No	
	Save Cancel	Copyright © 2005 TRENDect. All Rights Reserve	d.

#### System Device

In this field, you can configure the basic information of your print server.

	200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200		
Location	:		
Admin Contact	•		
Password	: New Password	:	

- Server Name: Assign a name to the print server.
- Location (optional): Assign a location for the print server
- Admin Contact (optional): Assign the Admin Contact's name for the print server.
- Password: Enter the Administrator password (3-8 characters). To set up the password, please enter the password in the *New Password* box, and then enter the same one again in the *Confirm Again* box.

#### Port Settings

In this field, you can assign the *Port Name* for the print server, and the description for the USB port. It also allows you to select the **PJL Printer** setting (*Yes* or *No*).

Port Setting		
USB1	: Port Name	: PS-56779E-U1
	Description	:
	PJL Printer	: No 💌
USB2	: Port Name	: PS-56779E-U2
	Description	;
	PJL Printer	: No 💌
LPT3	: Port Name	: PS-56779E-P3
	Description	:
	Speed	: High 💌
	PJL Printer	: No 💌
Save Cance	1	

**NOTE:** PJL (Print Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.

# Configuration → Network

	10/100Mbps Multi-Port Print Server TE100-P21
Management	
Configuration	
System IP Address	: 💿 Manually Assign
Network User	IP Address : 192.168.1.201
Email	Subnet Mask : 255.255.255.0
SNMP	Default Gateway : 192.168.1.254
Tools	O Automatically Assign
Help DNS Server Address	* 1. 0.0.0.0 2. 0.0.0.0
UPnP	:      Disable
MAC Rendezvous	:      O Enable      Disable
Second HTTP Port	: O Enable   Disable
	Port Number: 0 (For Remote Web Configuration and IPP Printing)
Microsoft Network	
Workgroup	: WORKGROUP
AppleTalk	
AppleTalk Zone	: *
USB1	: Chooser Name : PS-56779E-U1
	Printer Type : LaserWriter
	PostScript Level 2
· · · · · · · · · · · · · · · · · · ·	Font Group : Standard 35 💌
USB2	: Chooser Name : PS-56779E-U2
	Printer Type : LaserWriter
	PostScript Level : Level 2 💌
· · · · · · · · · · · · · · · · · · ·	Font Group : Standard 35 💌
LPT3	: Chooser Name : PS-56779E-P3
	Printer Type : LaserWriter
	PostScript Level : Level 2 V
	Font Group : Standard 35 💌
Save Cancel	

#### TCP/IP

This field contains three options that allow you to configure the TCP/IP setting: **IP Address**, **UPnP**, and **MAC Rendezvous**.

- **IP Address:** This option allows you to set the IP address manually or automatically. When you choose *Manually Assign*, you should enter the related information in the following boxes, including *IP Address*, *Subnet Mask*, and *Default Gateway*.
- UPnP: This option allows you to enable or disable UPnP mode.
- MAC Rendezvous: This option allows you to enable or disable MAC Rendezvous mode.

IP Address				
IP Address	: 💿 Manually Assign			
	IP Address : 192.168.1.121			
	Subnet Mask : 255.255.255.0			
	Default Gateway : 192.168.1.254			
	<ul> <li>Automatically Assign</li> </ul>			
DNS Server Address	÷ 1. 0.0.0.0			
	2. 0.0.0.0			
UPnP	⊙ Enable 🔿 Disable			
MAC Rendezvous	: 💿 Enable 🔿 Disable			
Second HTTP Port	: 🔘 Enable 💿 Disable			
	Port Number : 0			
	(For Remote Web Configuration and IPP Printing)			

#### Microsoft Network

Enter the name of the Workgroup that you want the print server associated with in this field.

Microsoft Netw	rork	
Workgroup	: WORKGROUP	

#### <u>AppleTalk</u>

Enter the AppleTalk Zone name in the box. In the following options, enter the related configuration, such as the printer type.

- USB1, USB2, LPT3
  - Chooser Name: Display the print server's Port name.
  - **Printer Type:** Enter the printer's type in this box.
  - **PostScript Level:** Select from the pull-down menu (*Level 1* or *Level 2*).
  - Font Group: Select from the pull-down menu.

AppleTalk Zone	: *	
USB1	: Chooser Name	: PS-56779E-U1
	Printer Type	: LaserWriter
	PostScript Level	: Level 2 💌
	Font Group	: Standard 35 💌
USB2	: Chooser Name	: PS-56779E-U2
	Printer Type	: LaserWriter
	PostScript Level	: Level 2 💌
	Font Group	: Standard 35 💌
LPT3	: Chooser Name	: PS-56779E-P3
	Printer Type	: LaserWriter
	PostScript Level	: Level 2 💌
	Font Group	: Standard 35 💌

**TIP:** Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

### Configuration → User

	DNET	10/100	Vlbps Multi-	Port Print Server TE100-P21
Management	USER			]
Configuration System Network	Printing Control Enable User Printing Contro	ol : 🔿 Yes 👁	) No	
User Email SNMP	Allow Undefined Users Prin	nting : 🔿 Yes 💿	) No	
Tools	Define Users			
Help	Add User : User Name MAC Addre Printing Ac	988 :	s O No	Add
	Delete User 💠 💽			Delete
	User List 💠 Name		MAC	Printing Access
			Copyright © 2	005 TRENDnet. All Rights Reserved.

#### Printing Control

By configuring the **Enable User Printing Control** option (*Yes* or *No*), the user in the User List is permitted to access the print server or not. For the user(s) who is not in the User List, you can also limit the access right by setting the **Allow Undefined Users Printing** option to *Yes* or *No*.

#### **Define Users**

You can add/delete the user(s) to/from the User List. The User List at the bottom of the screen displays the current defined user and related information for the print server.

**TIP:** Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

lanagement	E-MAIL
configuration	
System	E-mail Account
Network	Print Server E-mail Address :
User	Incoming E-mail (POP3) Server Address :
Email	Outgoing E-mail (SMTP) Server Address :
SNMP.	
ools	Account Name :
lelp	Password :
leip	
	E-mail Notification
	Enable e-mail notification for printer status changing : O Yes 📀 No
	Notification e-mail will be sent to Admin's e-mail address.
	Admin E-mail Address :
	(Use ',' to separate multiple e-mail address)
	E-mail Printing (To USB1 Port)
	E-mail Printing (ASCII Text Only) : O Enable O Disable
	Receive E-mail Interval : 15 (minutes)
	(finites)
	Save Cancel

# Configuration → E-mail

#### E-mail Account

You can assign an E-mail address to the print server, so that your mail of the account can be printed out directly through the printer (ASCII text only). To enable this function, enter the E-mail account in the **Print Server E-mail Address** box.

- **Incoming E-mail (POP3) Server Address:** Enter the server address that is used to receive your E-mail in this box.
- **Outgoing E-mail (SMTP) Server Address:** Enter the server address that is used to send your E-mail in this box.

If your mail server needs to verify the user when sending E-mail, you have to input the **Account Name** and **Password**.

#### E-mail Notification

You can set the print server to send an alter message when the printer status changes through E-mail. To enable this function, set the **Enable e-mail notification for printer status changing** option to *Yes*. Then, input the administrator's E-mail address in the Admin E-mail Address box.

#### E-mail Printing

- **E-mail Printing (ASCII Text Only):** Select *Enable* to enable the E-mail printing function.
- **Receive E-mail Interval:** Enter the number in this box to set up the time (in minute) to check/receive E-mail regularly.

**TIP:** Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

## Configuration → SNMP

	DNET <sup>10</sup>	D/100Mbps Multi-Port Print Server TE100-P21
Management	SNMP	
Configuration System	SNMP Management	
Network User	Community 1 Name : Access Right :	public Read/Write V
Email SNMP	Community 2 Name : Access Right :	Read Only
Tools Help	Community 3 Name : Access Right	Read Only
	Save Cancel	
		Copyright © 2005 TRENDhet. All Rights Reserved.

#### **SNMP Management**

SNMP (Simple Network Management Protocol) is a set of protocols for managing complex networks

- Community 1/2/3: Enter a name in the Name box, and configure the Access Right by selecting *Read Only* or *Read/Write* from the pull-down menu.

**TIP:** Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.

# Tools

## Tool → Print Test

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management	PRINT TEST
Configuration	
Tools	Over the selection     Over the selection USB1 port print test requires Native DOS mode support on your printer)
Print Test	<ul> <li>USB2 (USB2 port print test requires Native DOS mode support on your printer)</li> </ul>
Email	O LPT3
Reset	
Factory Reset	Test
Firmware Upgrade	
Backup	
Help	
	Copyright © 2005 TRENDnet. All Rights Reserved.

#### Print Test

Choose one of the print ports and click *Test* to print a test page.

# Tool → E-mail

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management	E-MAIL
Configuration	Test E-mail Account
Tools	E-mail test will send an e-mail to Admin's e-mail address.
Print Test	Do you want to test e-mail account?
Email	Test
Reset	
Factory Reset Firmware Upgrade	Receive E-mail
Backup	Do you want to receive e-mail and print out?
Help	Yes
	Copyright © 2005 TRENDnet. All Rights Reserved.

#### Test E-mail Account

Click **Test** to send a test E-mail to the given administrator's E-mail address.

#### Receive E-mail

Click **Yes** to immediately check and receive E-mail, and then print out the mail when available.

## Tool → Reset

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management Configuration Tools Print Test Email Reset Factory Reset Firmware Upgrade Backup Help	RESET Do you want to reset this device? Yes
	Copyright © 2005 TRENDnet. All Rights Reserved.

#### <u>Reset</u>

Click **Yes** to immediately reset the print server.

# Tool → Factory Reset

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management	FACTORY RESET
Configuration	Do you want to restore this device to factory default setting?
Tools	
Print Test	Yes
Email	
Reset	
Factory Reset	
Firmware Upgrade	
Backup	
Help	
	Copyright © 2005 TRENDnet: All Rights Reserved.
	Cupyingine & 2003 Thermone. All highes reserved.

#### **Factory Reset**

Click **Yes** to reload the factory settings of the print server.

## Tool → Firmware Upgrade

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management	FIRMWARE UPGRADE
Configuration	Current Firmware Version and Date: 3.25 (2005-12-26)
Tools	Select a Firmware File :
Print Test	Browse
Email Reset	
Factory Reset	Upgrade Cancel
Firmware Upgrade	
Backup	
Help	
	Copyright © 2005 TRENDnet. All Rights Reserved.

#### Firmware Upgrade

When a new version of firmware is available (e.g. downloading from the manufacturer's website), you can upgrade the firmware of your print server. Click **Browse** to point to the firmware file, and then click **Upgrade**.

# Tool → Backup

	DNET 10/100Mbps Multi-Port Print Server TE100-P21
Management	BACKUP
Configuration	Backup Device Configuration to File
Tools	Do you want to backup the configuration to file?
Print Test Email Reset	Backup
Reset Factory Reset Firmware Upgrade	Restore Device Configuration from File
Backup	Select a Configuration File : Browse
Help	Restore Cancel
	Copyright © 2005 TRENDnet. All Righta Reserved.

#### **Backup Device Configuration to File**

Click **Backup** to backup your current configuration of the print server to file and then save in the computer.

#### **Restore Device Configuration from File**

You can reload a configuration that you saved before. Click **Browse** to point to the backup file, and then click **Restore**.

# Help

	DNET	10/100Mbps Multi-Port Print Server TE100-P21
Management Configuration Tools Help About	ABOUT Print Server v3.25	
		Copyright © 2005 TRENDnet. All Rights Reserved.

This screen displays the information of the print server.

# 5

# PRINTING IN WINDOWS 95/98/ME

The Print Server can provide print services to TCP/IP networks using the LPR/LPD network printing protocol. Most UNIX systems are capable of supporting LPD, as is Windows NT/2000.

This LPR for TCP/IP Printing client gives Windows 95/98/ME workstations the ability to print using the LPR/LPD printing protocol. Though it is possible to print to Print Servers from Windows 95/98/Me, this capability is useful if primarily administer your network from UNIX systems, or if you want to print from workstations that are only accessible through IP routing.

# Installing the LPR for TCP/IP Printing Client

Before your Windows 95/98/ME workstation can print using the LPR protocol, you will need to install the client program, as follows:

- 1. Make sure that you have installed the TCP/IP protocol, and have properly configured the Windows 95/98/ME TCP/IP settings. You can install the protocol from the Network control panel if necessary.
- From the Start menu, choose the Settings submenu, then the Control Panel item within it. Windows will display the Control Panel folder.
- **3.** Double-click on the Network icon in the Control Panel folder.

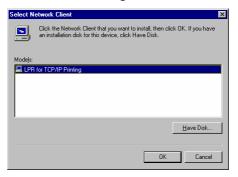


- 4. Click on the Add... button on the Configuration tab.
- **5.** Windows will ask for the type of component to add. Select Client and click **Add...** to continue.



6. When Windows asks you to select a network client, click the Have Disk... button.

- **7.** Insert the Print Server installation CD in your computer's CD-ROM, enter the proper pathname (for example , D:\ lpr), and click **OK**.
- **8.** Select the LPR for TCP/IP Printing client and click **OK**.



**9.** Windows will copy the necessary files, and return to the Network dialog. Click **OK** to let Windows restart.

Network	? ×
Configuration   Identification   Access Control	
,	
The following network components are installed:	
Client for Microsoft Networks	<b></b>
Client for NetWare Networks	
📇 LPR for TCP/IP Printing	
B NE 2000 Compatible	
FIPX/SPX-compatible Protocol	
🕯 NetBEUI	-
Add <u>R</u> emove <u>P</u> ro	perties
Primary Network Logon: Client for NetWare Networks	<b>-</b>
<u>F</u> ile and Print Sharing	
Description LPR for TCP/IP Printing (v1.00/1997-08-08) enable: connect to and use the printers connected on the P devices that support TCP/IP LPR printing protocol.	
OK	Cancel

# **Adding LPR Printer Ports**

Once you have installed the client, and have enabled TCP/IP printing for the Print Servers, then you need to add a printer port for each printer you will be printing to using the lpr/lpd protocol. To add a printer port,

- From the Start menu, choose the Settings submenu, then the Control Panel item within it. Windows will display the Control Panel folder.
- 2. Double-click on the Network icon in the Control Panel folder.



**3.** Choose the LPR for TCP/IP Printing client and click the **Properties** button.

Network ? X			
Configuration Identification Access Control			
The following network components are installed:			
Elient for Microsoft Networks			
Client for NetWare Networks			
E LPR for TCP/IP Printing			
NE2000 Compatible			
FIPX/SPX-compatible Protocol			
A NetBEUI			
Add <u>R</u> emove <u>Properties</u>			
Primary Network Logon:			
Client for NetWare Networks			
<u>File</u> and Print Sharing			
Description			
LPR for TCP/IP Printing (v1.00/1997-08-08) enables you to			
connect to and use the printers connected on the Print Server devices that support TCP/IP LPR printing protocol.			
devices that support i CEVIE EEN plinting protocol.			
OK Cancel			

- **4.** Click the **Add Port...** button to add a new lpd-accessible printer port.
- **5.** Enter the IP address of the Print Server and the name of the printer port that you will be printing to, then press OK.

**Hint:** You can get the Port name (same as print name) from the print server's system information through web browser. Please refer page 44-46. Please make sure the port name is correspondence to the port you connected.

Add Port	×
IP Address :	
202.39.74.188	
Port Name :	
PS-AA20AC-P1	
1	
OK Cancel	

**6.** Click **OK** to leave the LPR for TCP/IP Printing Properties window.

LPR for TCP/IP Printing Properties	:	×
Ports Settings		
Port List		
	Delete Por	:
	ОК	Cancel

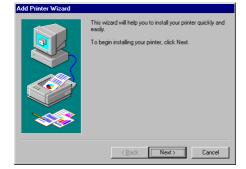
## Printing from Windows 95/98/ME

After you have added the necessary printer ports, you can add a printer device for printing to the port. To enable printing to an lpr-accessible printer port from Windows 95/98/ME:

- **1.** From the Start menu, choose the Settings submenu, then the Printers item within it. Windows will display the Printers folder.
- 2. Double-click on the Add Printer icon in the Printers folder.



Windows will start the Add Printer Wizard.



Click the **Next** > button to continue to the next screen.

**3.** Choose the **Network Printer** selection and click the **Next** > button to continue.



**4.** Enter the name of the port, as displayed in the LPR for TCP/IP Printing Port List.

Add Printer Wizard	
	Type the network path or the queue name of your printer. If you don't know its name, click Browse to view available network printers. Network gath or queue name: (V202.39.74.189/bp-sa2/be-p1
	Browse
	O Yes
	© <u>N</u> o
	< <u>B</u> ack Next > Cancel

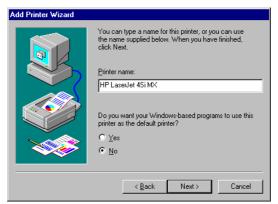
Alternatively, you can click **Browse...** and locate the printer port. TCP/IP printing ports are located under the Entire Network icon, within the Print Servers - TCP/IP LPR icon.



Press OK when you have located the proper printer port.

Click **Next** > to continue to the next step.

- 5. At this point Windows will ask you to choose the correct printer driver for the printer. Choose you printer's make and model from the list, or use the driver disk included with the printer. When you have chosen the correct printer, click Next > to continue.
- 6. Windows will then ask for a name for the new printer, and ask whether or not you want to set the printer as the Windows default printer. Click Finish (or Next >) to continue.



7. Windows may ask you whether or not you wish to print a test page to make sure that the printer will work correctly. When the test page is done printing, you will be asked whether or not the test page printed.

## **Setting TCP/IP Printing Settings**

The lpr client's Properties dialog allows you to change several of the client's settings. To change these settings,

- From the Start menu, choose the Settings submenu, then the Control Panel item within it. Windows will display the Control Panel folder.
- 2. Double-click on the Network icon in the Control Panel folder.



**3.** Choose the LPR for TCP/IP Printing client and click the **Properties** button.

etwork			?
Configuration   Identificat	ion Access Control	]	
The following network	components are insta	lled:	_
🔜 Client for Microsoft		L. L	•
Client for NetWare			L
LPR for TCP/IP Pr			L
NE2000 Compatibl		_	
IPX/SPX-compatib NetBEUI	le Protocol		
A NethEOL			1
	- 1		1
<u>A</u> dd	<u>R</u> emove	Properties	
Primary Network Logor	ι:		
Client for NetWare Ne	tworks		-
Eile and Print Shari	ng		
Description			
LPR for TCP/IP Print connect to and use to devices that support	he printers connected	d on the Print Server	
	0	DK Cano	el

**4.** Click on the Settings tab to access the lpr client settings. Change the settings as necessary, and press **OK** to let the changes take effect.

LPR for TCP/IP Printing Properties	×
Ports Settings	
Communication Settings	
Communication Timeout : 5 seconds	
Retry Interval : 15 seconds	
Retry Times : 16 times 🔽 Infinite	
Spool Settings Spool Path : C:WIN95/SYSTEMLPRSPOOL	
Browse	
OK Cancel	

The parameters are as follows:

- **Communication Timeout** Determines how long, in seconds, the system will wait before determining that it has lost connection with lpr/lpd print servers.
- **Retry Interval** Determines how long, in seconds, the system will wait before retrying a lost connection.
- **Retry Times** Determines how many times the system will retry a lost connection with an lpr/lpd print server. If **Infinite** is checked, it will retry indefinitely.
- **Spool Path** Gives the directory path where the system will temporarily store lpr/lpd print server job files.

# 6

# PRINTING IN WINDOWS 2000/XP

## Setting Up Windows 2000 TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows 2000.

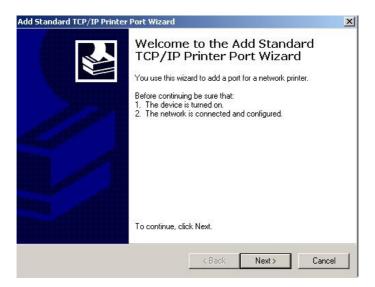
Click **Start > Settings > Printers**. Double Click "**Add Printer**" Select "**Local Printer**"

Add Printer Wizard			
Local or Network Printer The wizard needs to know which type of	printer to set up.		Î
Select the option that describes the printe	r you want to use:		
Cocal printer attached to this compute	r		
Automatically detect and install my	Plug and Play pri	nter	
C A network printer, or a printer attached	d to another comp	uter	
To set up a network printer that i use the "Local printer" option.	s not attached to a	a print server,	
	< Back	Next >	Cancel

### Create a new "Standard TCP/IP Port"

Add Printer Wizard			
Select the Printer	Port nunicate with printers throug	gh ports.	<b>A</b>
Select the port yo new port.	ou want your printer to use.	If the port is not listed, you	u can create a
C Use the follow	wing port:		
Port	Description	Printer	<b></b>
LPT2: LPT3: COM1: COM2: COM3: COM3:	Printer Port Printer Port Serial Port Serial Port Serial Port Serial Port		
Note: Most c	omputers use the LPT1: po	rt to communicate with a lo	ocal printer.
💿 Create a new	port:		
Туре:	Standard TCP/IP	Port	
		< Back Next	> Cancel

### Click "Next"



Input the IP Address of the Print Server, and the Port name (Printer Name) of the Port that will be printed to, then click "**Next**".

**Hint:** You can get the port Name (Same as Printer Name) from the print server's system information through web browser. Please refer page 44-46. Please refer page 44-46. Please make sure the port name is correspondence to the port you connected (etc.USB1, USB2, LPT3)

Printer Name or IP Address: 192.168.1.121	
Port Name: PS-56779E-U1	

Select "Custom", and click "Settings".

Standard TCP/IP Printer Port Wiz Additional Port Information Requir The device could not be identified.	
The device is not found on the network.	Be sure that
	s correct. ick Back to return to the previous page. Then correct on the network. If you are sure the address is correct,
Device Type	
C Standard Generic Network Card	d 🔽
Custom Settings	
Contrage	

Select "LPR", and put the Port name in the field labeled "Queue Name". Then Click "OK".

onfigure Standard TCP/IP	Port Monitor	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	?
Port Settings			
Port Name:	PS-567	79E-U1	
Printer Name or IP Address:	192.168	8.1.121	
Protocol			
C Raw		LPR	
Raw Settings			
Port Number: 9	100		
LPR Settings			
Queue Name:	S-56779E-U1		
LPR Byte Counting End	abled		
SNMP Status Enabled			
Community Name:	ublic		
SNMP Device Index:			
			<b>C</b> 1
		OK	Cancel

Click "Next".

	nformation Required Ild not be identified.			N.
The device is not fo	und on the network. Be sure t	hat:		
1. The device is tu				
<ol> <li>The network is</li> <li>The device is p</li> </ol>				
	operly configured. the previous page is correct.			
if you think the add	ess is not correct, click Back t	o return to the	previous page.	Then correct
the address and pe	form another search on the ne pe below.			
the address and pe				
the address and pe select the device ty Device Type				
the address and pe select the device ty Device Type	pe below.			
the address and pe select the device ty Device Type C Standard	pe below. Generic Network Card			

### Click "Finish"

TCP/I	eting the Add Standard P Printer Port Wizard elected a port with the following characteristics.
SNMP: Protocol: Device: Port Name: Adapter Typ	10 501/02 01
To complete	e this wizard, click Finish.

The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click "**Have Disk**", to provide the Manufacturer's Driver Disk.

Add Printer Wizard		
Install Printer Softwa The manufacturer a	202 - 210W	determine which printer software to use.
	Disk. If you	id model of your printer. If your printer came with an installation ur printer is not listed, consult your printer documentation for
Manufacturer		Printers
Fujitsu GCC Generic Gestetner Hewlett-Packard		b∰rhp deskiet 3420 series
This driver is digitally s Tell me why driver sig		Windows Update Have Disk
		< Back Next > Cancel

Click "Next".

Add Pi	rinter Wizard
Us	se Existing Driver A driver is already installed for this printer. You can use or replace the existing driver.
	HP Deskjet 3420 series
	Do you want to keep the existing driver or use the new one?
	<ul> <li>Keep existing driver (recommended)</li> </ul>
	C Replace existing driver
	<back next=""> Cancel</back>

## Select a "Printer Name".

Name Your Printer		R
You must assign a name to this printer.		Y
	ne programs do not support printer and server acters, it is best to keep the name as short as	
Printer name:		
hp deskjet 3420 series		
a second construction of the		
Do you want to use this printer as the de	ault printer?	
	ault printer?	
Do you want to use this printer as the de	ault printer?	
Do you want to use this printer as the de	ault printer?	
Do you want to use this printer as the de	ault printer?	
Do you want to use this printer as the de	ault printer?	

## Sharing can be enabled here.

Printer Wizard Printer Sharing You can share this printer with other ne	twork users.	ß
		9
	st provide a share name. You can use the e share name will be visible to other networ	k
Do not share this printer		
O Share name:		

Also, a Test Page can be printed to confirm proper configuration.

Add Printer Wizard		
Print Test Page To confirm that the printer is installed pro	operly, you can print a test page.	Þ
Do you want to print a test page?		
Yes		
C No		
	< Back Next > Cancel	

When the Test Page has been printed, click "**Finish**" to complete the installation.



## Setting Up Windows XP TCP/IP Printing

Following is the correct procedure for setting up TCP/IP LPR printing under Windows XP.

Click Start > **Printer and Faxes** Double Click "**Add a Printer**" Click "**Next**"



### Select "Local Printer"



### Create a new "Standard TCP/IP Port"



### Click "Next"



Input the IP Address of the Print Server, and the Port name of the Port that will be printed to, then click "**Next**".

**Hint:** You can get the Port name (same as printer name) from the print server's system information through web browser. Please refer page 44-46. Please make sure the port name is correspondence to the port you connected (etc.USB1, USB2, LPT3)

Add Standard TCP/IP Printer	Port Wizard 🛛 🔀
Add Port For which device do you wan	t to add a port?
Enter the Printer Name or IP a	ddress, and a port name for the desired device.
Printer Name or IP <u>A</u> ddress:	192.168.1.121
Port Name:	PS-56779E-U1
	< <u>B</u> ack <u>N</u> ext > Cancel

## Select "Custom", and click "Settings".

	tt Information Required could not be identified.	
	evice is of unknown type. Be sure that: properly configured.	
	on the previous page is correct.	
	e address and perform another search on the network	
previous wizard	page or select the device type if you are sure the add	dress is correct.
previous wizard	page or select the device type if you are sure the add	dress is correct.
	page or select the device type it you are sure the add	fress is correct.
Device Type	page or select the device type if you are sure the add	tress is correct.
- Device Type O <u>S</u> tandard	Generic Network Card	dress is correct.
Device Type		dress is correct.

Select "LPR", and put the Port name in the field labeled "Queue Name". Then Click "OK".

Port Name:		PS-56779E-U1
Printer Name or IP <u>A</u> ddre	388:	192.168.1.121
Protocol O <u>R</u> aw		<u>⊚ </u> LPR
Raw Settings		
Port <u>N</u> umber:	910	0
LPR Settings		
Queue Name:	PS-	56779E-U1
LPR Byte Counting	Enable	ed
SNMP Status Enab	oled	
Community Name:	pub	lic
SNMP Device Index:	1	

Click "Next".

Add Standard T	CP/IP Printer Port Wiz	ard		
	t Information Required could not be identified.			
<ol> <li>The device is</li> <li>The address</li> <li>Either correct the</li> </ol>	vice is of unknown type. Be properly configured. on the previous page is corre- address and perform anothe page or select the device type	ct. r search on the netw		he
Device Type O <u>S</u> tandard O <u>C</u> ustom	Generic Network Card			×
		< <u>B</u> ack	<u>N</u> ext >	Cancel

## Click "Finish"



The Printer Install Wizard will now prompt for drivers. Select the correct Make and Model, or click "**Have Disk**", to provide the Manufacturer's Driver Disk. Click "**Next**".

Add Printer Wizard	
Install Printer Software The manufacturer and model	determine which printer software to use.
	d model of your printer. If your printer came with an installation ar printer is not listed, consult your printer documentation for
Manufacturer 🔨	Printers 🔼
Fuji Xerox Gestether Hewlett-Packard	Image: Printer         Image
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	
	< <u>B</u> ack <u>N</u> ext> Cancel

## Select a "Printer Name".

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible. Printer name:
– hp deskjet 3420 series
Do you want to use this printer as the default printer? ⊙ ⊻es
O N <u>o</u>
< <u>B</u> ack <u>N</u> ext > Cancel

A Test Page can be printed to confirm proper configuration.

Add Printer Wizard	
Print Test Page To confirm that the printer is installed prop	erly, you can print a test page.
Do you want to print a test page?	
O N <u>o</u>	
	< <u>B</u> ack <u>N</u> ext > Cancel

When the test page has been printed, click "**Finish**" to complete the installation.



# 7

# PRINTING IN MAC OS

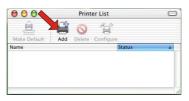
## Rendezvous Uses in MAC OS 10.2

The latest version of MAC OS provides a new feature that is called **Rendezvous**. Rendezvous is a revolutionary networking technology standard that lets you create an instant network of computers and devices, which can be used throughout Mac OS 10.2 to provide innovative ways to share files and printers and even contact other people on the network.

For the printer connection, the Mac OS 10.2 Print Center application uses Rendezvous to discover Rendezvous-enabled printers on the network. When you add your computer to a network, Print Center automatically discovers the available printers. All you have to do is selecting the one you want to use and then start printing. You can add a new printer to the network and all the users on the network will see the new printer automatically appear in their Print Center, without any configuration.

The following instructions provide a common procedure of installing the printer:

**1.** Launch Print Center. Press and hold the Option key, click the **Add** button.



2. Select **Rendezvous** from the pop-up menu.

000	AppleTalk Directory Services IP Printing	0
	✓ Rendezvous	
Name	USB	
PS-8251C6-U1	local.	
PS-B338A2-U1	local.	
Printer Model:	Generic	
rinter would.	Generic	*
	6	Cancel Add

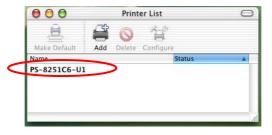
**3.** When clicking the **Rendezvous** item, the following window appears to display the connected Rendezvous-enabled printers.

000	Printer List	
	Rendezvous	
Name PS-8251C6-U1 PS-B338A2-U1	Location local. local. Connected printer(s)	
Printer Model:	Generic ;	

**4.** Select the desired printer, and the following pop-up menu displays the printer's manufacturer. Select **Generic**.

000	Prin	iter List		0
	Rendezvous		;	
Name		Location		
PS-8251C6-U1		local.		
PS-B338A2-U1		local.		
rinter Model:	Auto Sele ✓ Generic	ct		
rinter Moder				•
rinter Model	✓ Generic	ct		•
rinter Model	✓ Generic Other	<b>5</b>		•
rinter Mod	✓ Generic Other Apple	ct		•
rinter Model	<ul> <li>✓ Generic</li> <li>Other</li> <li>Apple</li> <li>Brother</li> </ul>	Š		•
Printer Mod	<ul> <li>✓ Generic</li> <li>Other</li> <li>Apple</li> <li>Brother</li> <li>ESP</li> </ul>	ct S		•
Printer Mod	<ul> <li>✓ Generic</li> <li>Other</li> <li>Apple</li> <li>Brother</li> <li>ESP</li> <li>HP</li> </ul>	>		•

5. The printer is installed into the system successfully.



## Setting Up Apple Talk/LPR Printing

## For MAC OS X User

With MAC OS X, you can use AppleTalk or LPR printers to print through the print server. Follow the instructions below for setting up the print server:

- 1. After attaching the print server to your network, change the IP Address of your Macintosh computer to access the print server's web configuration. The default I P Address of the print server is *192.168.0.1*. Change your IP Address to *102.168.0.x*, where *x* is any number between 2 and 254.
- 2. Open the System Preference window and click Network. In the Network window, select the AppleTalk tab and check the Make AppleTalk Active option.

net Network	QuickTime Sharing	Network	
	LUCATIO	n: Automatic	*
Sho	w: Built-in Ethernet	*	
	TCP/IP	PPPoE AppleTalk P	roxies
Check this	s option.	Make AppleTalk Active	
	Computer Name:	D link's Computer (Can be changed in Sharing Pro	eferences)
	AppleTalk Zone:		÷
	Configure:	Automatically	•
	AppleTalk zones are unavail Then choose a zone.	able until AppleTalk is on. To st	art AppleTalk, click Save.

3. To print, open a document and select File > Print from the menu.



4. Select Edit Printer List from the Printer dialog box.

Printer: Saved Settings:	✓ No Printer Selected           Edit Printer List	Select this option.
Copies & Pages	0	
Copies: 1	Collated	
Pages: ① All 〇 From:	1 to: 1	
0	Preview Cancel	Print

5. Click Add Printer. Then, select the desired printing protocol (*AppleTalk* or *LPR Printers using IP*).

	USB		Ŧ
Name	Directory Ser	vices	
PS-1123D	6-P1	LaserWrite	er
PS-1123D	6-P2	LaserWrite	er
월 PS-1123D	6-U3	LaserWrite	er
Printer M	Auto Selec	:t	

- AppleTalk: After selecting AppleTalk, the Port Name of the print server will be displayed. Select the Port to which the post-script printer is connected. Then, select the printer model from the dialog box. Click Add Printer to complete the Printer Port configuration. Select the Printer Port just configured in the Print window. Click Print to print your *document*.
- LPR Printers using IP: When you select LPR Printers using IP Protocol, type the IP Address of the print server into the LPR Printer's Address field of the following window. In the Queue Name field, type in the Port Name of the postscript printer that is connected to the Print Server. Select the printer model from the dialog box, and select the printer model from the pull-down menu. Click Add to complete the process. Close all Print Center windows and select the Printer Port that was just selected. Then, click Print to print the document.

Use Default Queue	
Queue Name:	ort Name of the connected printer.
Printer Model: Ge	eneric 🗘

## For MAC OS 9 User

If you use MAC OS 9, you can use the AppleTalk network protocol for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary low-speed LocalTalk transport. Your print server can be used for network printing to PostScript printers. You can print from any MAC OS computer connected to your Ethernet network, either directly using an EtherTalk connection or indirectly through a LocalTalk-to-EtherTalk router.

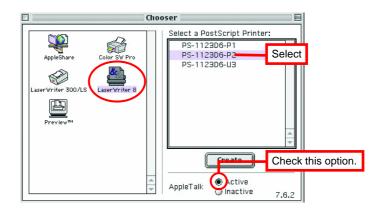
### To set up the print server to be used for AppleTalk printing:

- **1.** Please confirm that the AppleTalk protocol is enabled in your Macintosh computer.
- 2. Change the IP Address on one of the computers within your network to *192.168.0.x* (where *x* is any number between 2-254).
- **3.** Type *192.168.0.1* (the default IP Address) into the address field of your browser.
- **4.** Select the **Network** tab and scroll to the AppleTalk protocol section.
- **5.** If your AppleTalk network is divided into AppleTalk zones, you have to specify which zone the Print Server should be in. You should locate the print server in the same zone as most of the users who will be using it. If your network is not divided into zones, it should contain a single asterisk "\*".

### To print from MAC OS Client Workstations:

The actual settings of selecting a PostScript printer connected to your print server may be different from the instructions provided in this section, depending on the devices and the software you are using.

- 1. To choose a printer connected to your print server as your MAC OS workstation's default printer, select **Chooser** from the Apple menu.
- 2. In the left column of **Chooser** window, select the desired item. Please confirm that AppleTalk is set to *Active*. A list of all networked PostScript printers will be displayed within the right column.



3. Double-click the name of the **Printer Port** you wish to use. The **Printer Ports** shown are examples only.

4. If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD**.

Current Printer Description File (PPD) Selecte "Generic"	:d:
Auto Setup Select PPD	Help
Printer Info Configure	Cancel
	ОК

5. Select the appropriate printer description file for your printer. Click **Open**. (If your printer is not listed, click **Generic** to use a generic printer description.)

Open	
Rrinter Descriptions	<u>_</u> , <u>,</u> <u>,</u>
Name	Date Modified 🛎
🌍 HP LaserJet 4ML	5/7/01
🜍 HP LaserJet 4MP	5/7/01
🜍 HP LaserJet 4MP (300 dpi)	5/7/01
🍘 HP LaserJet 4Si (300 dpi)	5/7/01
ig HP LaserJet 4Si v2011.110	5/7/01
HP LaserJet 4V	5/7/01
	Show Preview
Use the Generic PostScript™ Printer Descrip	otion file: Generic
0	Cancel Open

The selected printer will become your computer's default printer. You may need to choose **Page Setup** in any applications you have open.

# 8

# **PRODUCT** SPECIFICATIONS

## **Printer Connection**

**Printer Interface**: Two USB ports, compliant with USB 2.0 Hi-speed standard.

## **Network Connection**

Network Interface: One 10/100 Fast Ethernet port (RJ-45 connector).

Network Data Transfer Rate: 100Mbps.

## Network Protocol Support

Transport Protocols: TCP/IP, SMB, NetBEUI, and AppleTalk.

**TCP/IP Protocols Support:** BOOTP, SNMP, Telnet, FTP, LPD, DHCP, and IPP.

## Hardware

SDRAM: 8MB.

Flash ROM: 2MB.

## **Operating System Support**

- Windows 95/98/ME, Windows NT, Windows 2000/XP/2003;
- NetWare 5.x (NDPS LPR remote printing);
- HP-UX Unix, Sun O.S, Solaris, SCO Unix, AIX;
- Unixware and Linux;
- Mac OS, AppleTalk.

## Management

Standard: SNMP

**MIBs**: MIB-II (RFC 1213).

Utilities: PS-Utility, PS Wizard. PSM Setup

## LEDs

Power, LAN, USB1, USB2, LPT.

## Environmental and Physical

Power Supply: 5VDC.

**Operating Temperature**: 0°C to 50°C.

Storage Temperature: -25°C to 55°C.

Humidity: 5% to 95%, non-condensing at 30°C.

## **EMI Compliance**

FCC Class B, CE Class B

# **Limited Warranty**

TRENDnet its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TE100-P21 Print Server – 5 Years Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT. SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE. OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES. AND LIMITS ITS LIABILITY ТО REPAIR. REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

**Governing Law**: This Limited Warranty shall be governed by the laws of the state of California.

AC/DC Power Adapter, Cooling Fan, and Power Supply carry - 1 Year Warranty

# 

### **TRENDnet** Technical Support

#### US/Canada Support Center

#### Contact

Telephone: 1(888) 777-1550 Fax: 1(310) 626-6267 Email: support@trendnet.com

#### **Tech Support Hours**

7:30am - 6:00pm Pacific Standard Time Monday - Friday

### European Support Center

### Contact

Telephone: Deutsch : +49 [0] 6331 / 268-460 Français : +49 [0] 6331 / 268-461 0800-907-161 [numéro vert] Español : +49 [0] 6331 / 268-462 English : +49 [0] 6331 / 268-463 Italiano : +49 [0] 6331 / 268-464 Dutch : +49 [0] 6331 / 268-465 Fax: +49 [0] 6331 / 268-466

#### **Tech Support Hours**

8:00am - 6:00pm Middle European Time Monday - Friday

### Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com

## TRENDNET

3135 Kashiwa Street Torrance, CA 90505 USA

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